

Title (en)

Firing of an industrial furnace and associated burner

Title (de)

Befuerung eines Industrieofens und zugehöriger Brenner

Title (fr)

Conduite d'un four industriel et brûleur associé

Publication

EP 2626628 B1 20140409 (DE)

Application

EP 13000579 A 20130205

Priority

- DE 102012002548 A 20120209
- EP 12002886 A 20120424
- EP 13000579 A 20130205

Abstract (en)

[origin: EP2626628A1] The burner (1) has a cylindrical central part (5), and a nozzle (7) for supplying gaseous oxidation medium. The central part has a laval nozzle (8) that is designed such that the gaseous oxidation medium is accelerated to supersonic speed parallel to secondary fuel. The laval nozzle has a heating unit for heating the oxidation medium, where the heating unit is designed as a nozzle for supplying gaseous or liquid fuel i.e. natural gas, and has an electrical ignition device. An infrared or UV sensor is provided for monitoring flame temperature in the laval nozzle. An independent claim is also included for a method for operating a burner.

IPC 8 full level

F23D 17/00 (2006.01); **F23D 99/00** (2010.01); **F23G 5/20** (2006.01); **F23L 7/00** (2006.01); **F23L 15/00** (2006.01); **F23N 5/08** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP)

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Citation (examination)

FR 1286095 A 19620302 - SIDERURGIE FSE INST RECH

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